

**Flood Control Project Maintenance**  
**2008 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Sacramento County**

**American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

**American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

**Flood Control Project Maintenance**

**Unit Cover Sheet**

**2008 Pumping Plant Inspection Results**

**Sacramento County**

Pumping Plant
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Date of Inspection	12/2/2008
DWR Inspector	Hana Babbin
Pumping Plant Rating	A

**Flood Control Project Maintenance**  
**Inspection Report - Structure 2008**

**Sacramento County**

Structure	Inspection Date	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05	12/02/2008	Hana Babbin

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Pump Stations	Operating Log		A				1
2	Pump Stations	Operation & Maintenance Manual		A				2
3	Pump Stations	Plant Building		A			Y	3
4	Pump Stations	Communications		A			Y	4
5	Pump Stations	Safety		A				5
6	Pump Stations	Cranes		N				6
7	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection.			7
8	Pump Stations	Power		A				8
9	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection.			9
10	Pump Stations	Pump Control Systems		A			Y	10
11	Pump Stations	Sumps/Wet Well		A			Y	11
12	Pump Stations	Trash Racks		A			Y	12
13	Pump Stations	Trash Rakes		A	Item inspected visually only. Item was not operated during the inspection.		Y	13
14	Pump Stations	Sluice / Slide Gates		N				14
15	Pump Stations	Electric Gate Operators		N				15
16	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection.			16
17	Pump Stations	Other Metallic Items		N				17

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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**Flood Control Project Maintenance**  
**Inspection Report - Structure 2008**

**Sacramento County**

Structure	Inspection Date	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05	12/02/2008	Hana Babbins

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
18	Pump Stations	Flap Gates		A	Item inspected visually only. Item was not operated during the inspection.			Y 18
19	Pump Stations	Closure Structures		N				19
20	Pump Stations	Security Fencing		A				Y 20
21	Pump Stations	Intake and Discharge Pipes		N	Pipes could not be seen.			21
22	Pump Stations	Pressurized Pipe		N	Pipes could not be seen.			22

**\* Location**

LS : Land Side  
 WS : Water Side  
 CR : Crown

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**Flood Control Project Maintenance**  
**Inspection Report - Structure 2008**

**Sacramento County**

Structure	Inspection Date	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05	12/02/2008	Hana Babbins

Report Line	3
Location	
Category	Pump Stations
Item	Plant Building
Plant building is brick. No deterioration or cracking is visible.	



Report Line	4
Location	
Category	Pump Stations
Item	Communications
Communications area within the station.	



Report Line	10
Location	
Category	Pump Stations
Item	Pump Control Systems
Pump control/power.	

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**Flood Control Project Maintenance**  
**Inspection Report - Structure 2008**

**Sacramento County**

Structure	Inspection Date	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05	12/02/2008	Hana Babbins

Report Line	11
Location	
Category	Pump Stations
Item	Sumps/Wet Well

View down wet-well. Clear of debris.



Report Line	12
Location	
Category	Pump Stations
Item	Trash Racks

View of trash racks. Chain driven trash rakes can also be seen.



Report Line	12
Location	
Category	Pump Stations
Item	Trash Racks

View of original trash racks which are situated behind the chain driven trash rack installation. These now function as a secondary system.



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## Flood Control Project Maintenance

### Inspection Report - Structure 2008

### Sacramento County

Structure	Inspection Date	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05	12/02/2008	Hana Babbins

Report Line	13
Location	
Category	Pump Stations
Item	Trash Rakes

Top of trash racks where chain driven rakes are controlled.



Report Line	13
Location	
Category	Pump Stations
Item	Trash Rakes

Power for the chain drive.



Report Line	18
Location	
Category	Pump Stations
Item	Flap Gates

Flap gates.



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**Flood Control Project Maintenance**  
**Inspection Report - Structure 2008**

**Sacramento County**

Structure	Inspection Date	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05	12/02/2008	Hana Babbin

Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

Security fencing completely encloses the station and is topped with barbed wire.

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**Flood Control Project Maintenance**

**Unit Cover Sheet**

**2008 Pumping Plant Inspection Results**

**Sacramento County**

Pumping Plant
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Date of Inspection	12/2/2008
DWR Inspector	Hana Babbin
Pumping Plant Rating	A

**Flood Control Project Maintenance**  
**Inspection Report - Structure 2008**

**Sacramento County**

Structure	Inspection Date	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43	12/02/2008	Hana Babbins

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Pump Stations	Operating Log		A			° Y	1
2	Pump Stations	Operation & Maintenance Manual		A			° Y	2
3	Pump Stations	Plant Building		A	Note that there is a 3-4inch deflection of the retaining wall. This deflection has been there for about a decade.		° Y	3
4	Pump Stations	Communications		A			°	4
5	Pump Stations	Safety		A			°	5
6	Pump Stations	Cranes		N			°	6
7	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection.		°	7
8	Pump Stations	Power		A			° Y	8
9	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection.		°	9
10	Pump Stations	Pump Control Systems		A			° Y	10
11	Pump Stations	Sumps/Wet Well		A			° Y	11
12	Pump Stations	Trash Racks		A	Trash racks are manually cleared of debris regularly.		° Y	12
13	Pump Stations	Trash Rakes		N			°	13
14	Pump Stations	Sluice / Slide Gates		N	Item inspected visually only. Item was not operated during the inspection.		° Y	14
15	Pump Stations	Electric Gate Operators		N			°	15
16	Pump Stations	Manual Gate Operators		A			°	16
17	Pump Stations	Other Metallic Items		N			°	17

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Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
18	Pump Stations	Flap Gates		A	Item inspected visually only. Item was not operated during the inspection.			18
19	Pump Stations	Closure Structures		N				19
20	Pump Stations	Security Fencing		A	Fencing is complete and barbed wire is present.		Y	20
21	Pump Stations	Intake and Discharge Pipes		N	All pipes are underground and cannot be seen.			21
22	Pump Stations	Pressurized Pipe		N	No pipes are visible.			22

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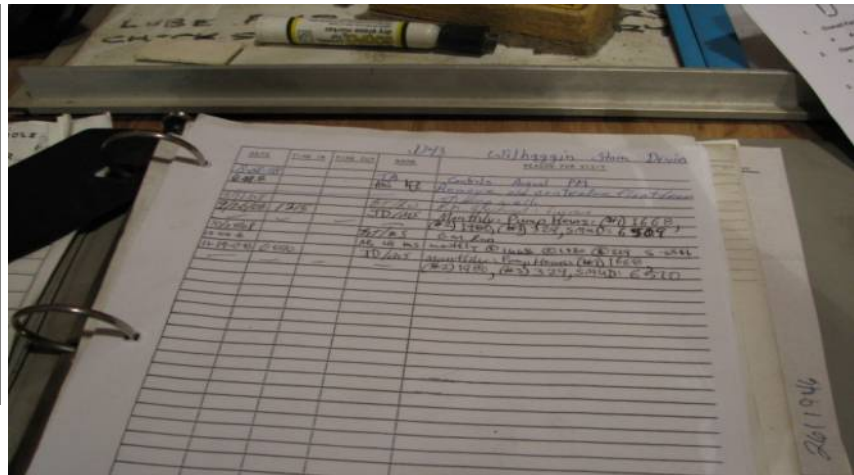
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American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43	12/02/2008	Hana Babbins

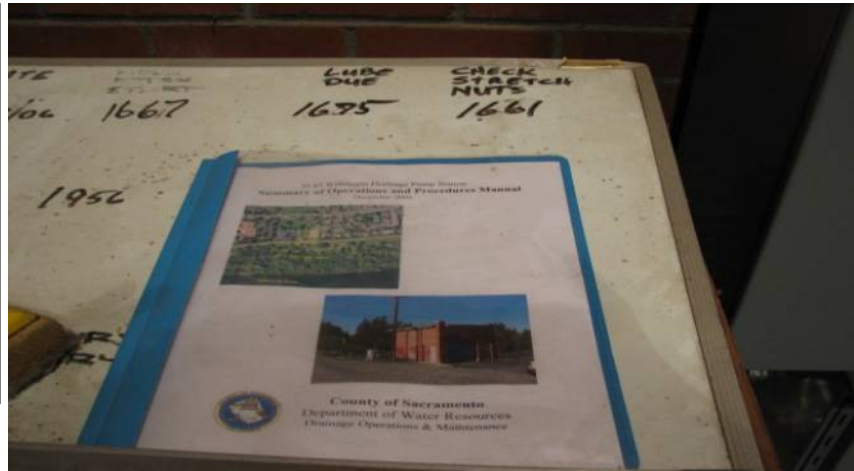
Report Line	1
Location	
Category	Pump Stations
Item	Operating Log

Maintenance and operations log indicates regular care is taken.



Report Line	2
Location	
Category	Pump Stations
Item	Operation & Maintenance Manual

County O&M manual present.



Report Line	3
Location	
Category	Pump Stations
Item	Plant Building

Pump station exterior has no visible cracking, appears structurally sound.



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Report Line	3
Location	
Category	Pump Stations
Item	Plant Building

Another view.



Report Line	8
Location	
Category	Pump Stations
Item	Power

Generators are housed within this fencing approximately 20' from the pump station.



Report Line	10
Location	
Category	Pump Stations
Item	Pump Control Systems

Pump control system.



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### Inspection Report - Structure 2008

### Sacramento County

Structure	Inspection Date	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43	12/02/2008	Hana Babbins

Report Line	11
Location	
Category	Pump Stations
Item	Sumps/Wet Well

View down to the wet well. Very clean.



Report Line	12
Location	
Category	Pump Stations
Item	Trash Racks

Some rust is present on the racks but clear of debris.



Report Line	14
Location	
Category	Pump Stations
Item	Sluice / Slide Gates

View of flap gates. No visible rust or damage.



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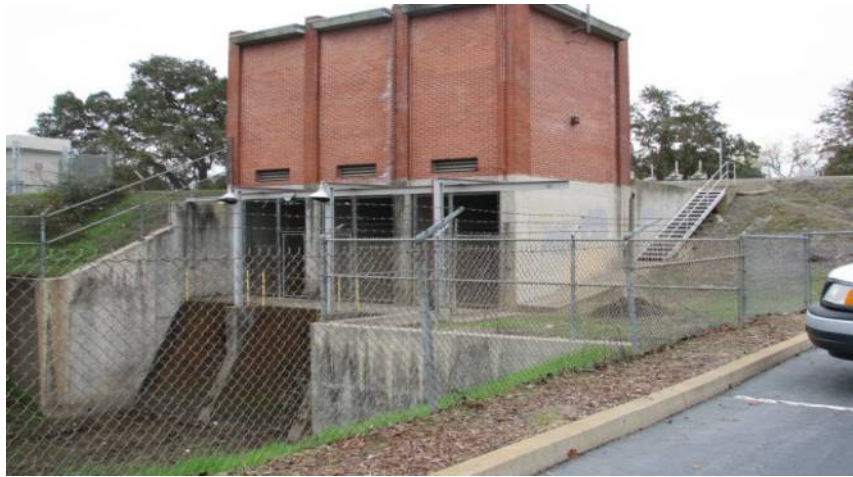
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Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

View of security fencing.



Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

Another view. Barbed wire is present at the top of the fencing but is not very visible here.



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